## CLAIMS

- 1. Process installation with a plurality of field devices, which exchange data with a control room via a signal line SL, wherein the signal line SL is designed for a conventional first data transmission technology having a low data transmission rate (smaller than 10,000 baud), characterized in that at least one field device, for data exchange, operates with a second data transmission technology, which permits a greater data transmission rate and/or an expanded functionality than the first transmission technology, and which uses, as communication medium, the existing signal line.
- 2. Process installation as claimed in claim 1, characterized in that the first and second data transmission technologies use separate data transmission channels occupying different frequency bands.
- 3. Process installation as claimed in one of the preceding claims, characterized in that the first data transmission channel occupies a frequency band up to 4 kHz, and the second data transmission channel occupies a frequency range greater than 4 kHz.
- 4. Process installation as claimed in one of the preceding claims, characterized in that the signal line SL is a 2-wire line.
- 5. Process installation as claimed in one of the preceding claims, characterized in that the signal line SL is a copper 2-wire line with a bandwidth of about 1 MHz.
- 6. Process installation as claimed in one of the preceding claims, characterized in that the first data transmission technology operates according to an industrial standard, e.g. Whessoematic WM550, Varec Mark/Space, Sakura V1, Tiway, Profibus, HART, FF.
- 7. Process installation as claimed in one of the preceding claims, characterized in that the second data transmission technology corresponds to DSL (digital subscriber line) technology.
- 8. Process installation as claimed in one of the preceding claims, characterized in that the process installation, is a tank farm with a plurality of tanks LC1, LC2, LC3, LC4, LC5 for containing liquid.
- 9. Method for modernizing a process installation with a plurality of field devices, which exchange data with a control room CR via a signal line SL,

characterized in that older field devices which transmit data to a control room according to a first transmission technology are replaced by new field devices, which work according to a second transmission technology, wherein the data transmission according to the second transmission technology occurs in a second channel on the existing signal line SL, so that the data transmission signals of the different transmission technologies do not influence one another.

10. Method for communication in a process installation with a plurality of field devices, characterized in that an existing signal line SL for a first transmission technology is used also for a second transmission technology.